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Henry, R.L., P.E.R. Nordquist, R.J. Gorman, J.S. Blakemore and W.J. Moore, Zone melt growth of GaAs for gamma ray detector applications 380 (1996) 30
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Hori, K., T. Fujimoto and K. Kawanishi, Application of cadmium telluride detector to high speed X-ray CT scanner 380 (1996) 397
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Ilie, A., B. Equer and T. Pochet, Leakage current studies of thick a-Si:H detectors under high electric field conditions 380 (1996) 18
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Iwanczyk, J.S., B.E. Patt, J. Segal, J. Plummer, G. Vilkelis, B. Hedman, K.O. Hodgson, A.D. Cox, L. Rehn and J.

Metz, Simulation and modelling of a new silicon X-ray drift detector design for synchrotron radiation applications 380 (1996) 288
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Janssen, D. and P. Vom Stein, A low emittance cw-electron injector for the ELBE accelerator 280 (1996) 497
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Jany, C., F. Foulon, P. Bergonzo, A. Brambilla, A. Gicquel and T. Pochet, Influence of CVD diamond film textures on the electrical response of radiation detectors 380 (1996) 107
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L'Ecuyer, J., A. Mouton, A. Legros, A. Selmani, J. Currie and S. Degtorov, Applications of selenium-based alloys for digital radiography 380 (1996) 493
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Macri, J.R., B.A. Apotovsky, J.F. Butler, M.L. Cherry, B.K. Dann, F.P. Doty, T.G. Guzik, M.L. McConnell and J.M. Ryan, Large-area sub-millimeter resolution CdZnTe strip detector for astronomy 380 (1996) 490
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Manfredotti, C., F. Fizzotti, P. Polesello, P.P. Trapani, E. Vittone, M. Jaksic, S. Fazinic and I. Bogdanovic, Investigation on the electric field profile in CdTe by ion beam induced current 380 (1996) 136
Manfredotti, C., F. Fizzotti, P. Polesello and E. Vittone, A realistic simulation of gamma-ray detectors 380 (1996) 145
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McGregor, D.S., H.C. Chui, J.E. Flatley, R.L. Henry, P.E.R. Nordquist, R.W. Olsen, M. Pocha and C.L. Wang, Comparison of vertical gradient freeze bulk GaAs and custom grown vertical zone melt bulk GaAs as radiation spectrometers 380 (1996) 165
McGregor, D.S., see Lund, J.C. 380 (1996) 256
McGregor, D.S., J.T. Lindsay, C.C. Brannon and R.W. Olsen, Semi-insulating bulk GaAs as a semiconductor thermal-neutron imaging device 380 (1996) 271
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Medlin, D.L., J.M. Van Scyoc, T.S. Gilbert, T.E. Schlesinger, D. Boehme, M. Schieber, M. Natarajan and R.B. James, Formation of PdHg by reaction of palladium thin film contacts deposited onto mercuric iodide (α-HgI_2) radiation detector crystals 380 (1996) 241
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Moore, W.J., R.L. Henry and P.E.R. Nordquist, Properties of gallium arsenide purified by zone refining and zone levelling 380 (1996) 102
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Ohba, K., A. Mito, M. Wakamatsu, S. Ito, T. Shoji and Y. Hiratate, Irradiation effects on Au–Si nuclear detectors by 10 MeV α-particles 380 (1996) 76
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Ohshima, Y., H.S. Ahn, M. Aoki, S. Awa, M. Fukushima, H. Hayashii, X.Q. Hu, T.W. Hur, S. Igarashi, H. Ikeda, H.C. Jeong, K. Kaneyuki, D.Y. Kim, S.K. Kim, A. Kuzmin, M.H. Lee, S. Noguchi, A. Ochi, H. Sagawa, N. Sato, N. Sugiyama, K. Tamai, T. Tanimori, N. Toomi, T.J. Wang, K. Watanabe, Y. Watanabe, X.C. Zhong and Y.C. Zhu, Beam test of the CsI(Tl) calorimeter for the BELLE detector at the KEK-B factory 380 (1996) 517
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Olsen, R.W., R.B. James, C. Cofield, B. Miller and B. Mickelsen, Special nuclear materials monitoring: An application of $Cd_xZn_{1-x}Te$ detectors 380 (1996) 467
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Patt, B.E., J.S. Iwanczyk, Y.J. Wang, M.P. Tornai, C.S. Levin and E.J. Hoffman, Mercuric iodide photodetector arrays for gamma-ray imaging 380 (1996) 295
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Peysson, Y. and R. Arslanbekov, Measurement of the non-thermal bremsstrahlung emission between 30 and 200 keV with a high time–space resolution on the tokamak TORE SUPRA 380 (1996) 423
Phillips, J.D., M.W. Lund, J.K. Shurtleff and W.P. Allred, Advancements in platelet growth 380 (1996) 50
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Polichar, R., R. Schirato, D. Shreve, J. Reed and A. Polichar, Energy selective imaging systems based on monolithic CdZnTe arrays operated in a high speed counting mode 380 (1996) 323
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Ponpon, J.P., M. Sieskind, M. Amann, A. Bentz and C. Corbu, Characterization of the HgI_2 surface layer after KI etching 380 (1996) 112
Ponpon, J.P. and M. Sieskind, Recent advances in γ- and X-ray spectrometry by means of mercuric iodide detectors . 380 (1996) 173
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Prat, V., H. Simon, A. Kazandjian, R. Régal and P. Siffert, Gamma-ray spectrometry using silicon based scintillation probes 380 (1996) 209
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Pullia, A. and G. Bertuccio, Resolution limits of silicon detectors and electronics for soft X-ray spectroscopy at non cryogenic temperatures 380 (1996) 1
Pullia, A., see Bertuccio, G. 380 (1996) 301

Quaranta, A.A., C. Canali, A. Cavallini, C. Del Papa, F. Nava, V. Re and P.F. Manfredi, Analysis of the output signal waveform and performances of semi-insulating GaAs particle detectors 380 (1996) 201
Quaranta, F., see Cola, A. 380 (1996) 66
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Ramunno, G., E. Caroli, G.D. Cesare, A. Donati, W. Dusi, D. Grassi, P. Chirco, P. Siffert, M. Amann and J.M. Koebel, Investigation of the behaviour of a mercuric iodide detector under unusual irradiation conditions 380 (1996) 223
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